

Notice of Allowability

Application No.

09/305,722

Examiner

Anita K Alanko

Applicant(s)

BAO ET AL.

Art Unit

1765

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 10/31/03.
2. ☒ The allowed claim(s) is/are 1,3-5,7-9,11,12 and 19.
3. ☒ The drawings filed on 11/30/00 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: _____.
5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
 - (a) ☐ The translation of the foreign language provisional application has been received.
6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No. _____.
 - (b) ☐ including changes required by the proposed drawing correction filed _____, which has been approved by the Examiner.
 - (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the margin according to 37 CFR 1.121(d).

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1 ☐ Notice of References Cited (PTO-892)
- 2 ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3 ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No. _____
- 4 ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5 ☐ Notice of Informal Patent Application (PTO-152)
- 6 ☐ Interview Summary (PTO-413), Paper No. _____
- 7 ☐ Examiner's Amendment/Comment
- 8 ☐ Examiner's Statement of Reasons for Allowance
- 9 ☐ Other _____

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Primary Examiner
Art Unit: 1765

CLMPTO

12/17/03

VA

1.(Previously Amended) A method for forming at making an organic transistor on a substrate comprising the steps of:

providing a substrate including a metal surface layer;

providing a rotatable stamp having relief geometries on its surface to define a stamping surface;

applying a self-assembled monolayer ink to the surface of the rotatable stamp to define an inked stamping surface;

rotating the rotatable stamp on the metal surface layer as the layer is placed in contact with the stamp to impress on the layer an inked pattern as defined by the inked stamping surface; and

patterning the layer by etching material from the layer wherein the inked stamping surface guides the etching in a geometry to define the patterned layer useful in fabricating an electronic device;

removing the inked pattern from the layer; and

applying an organic semiconductor layer overlying the etched metal layer.

Claim 2 is canceled.

3.(Original) The method of claim 1, in which the step of providing the rotatable stamp comprises:

- (a) casting a liquid onto a surface having relief geometries thereon;
- (b) solidifying the liquid to define a solid film; and
- (c) rolling a member over the solid film so that the solid film is lifted from the surface and bonds to the member.

4.(Original) The method of claim 3, in which the liquid comprises an elastomeric material, the step of solidifying the liquid comprises curing the elastomeric material to form an elastomeric film.

5.(Original) The method of claim 4, further comprising a step of exposing the cured elastomeric film to oxygen plasma before the member is rolled over the film.

Claim 6 is canceled.

7.(Currently Amended) The method of claim [6] 1 in which the metal surface layer [at least one coating layer] includes a thin layer of gold or silver.

8.(Previously Amended) The method of claim 1 in which the step of patterning the metal layer comprises etching material from the substrate applying an etchant selected from the group consisting of aqueous ferrocyanide, $K_4Fe(CN)_6$, $K_3Fe(CN)_6$, $Na_2S_2O_3$, and KOH in H_2O .

9.(Original) The method of claim 1, in which the step of rotating the stamp provides an exposed region on the metal layer where substantially no ink is present and a protected region on the layer where ink substantially covers protected region.

Claim 10 is canceled.

11. The method of claim [10] 1, in which the metal surface layer has an applied adhesive layer selected from the group consisting of Ti and Cr.

12.(Previously Amended) The method of claim 1 in which the inked pattern is removed by ultraviolet light, heat, or wet chemical cleaning.

Claims 13-18 are canceled.

19.(Previously Amended) The method of claim 3 wherein the member comprises a cylinder with a glass surface.

Claims 20-22 are canceled.